

www.pca.state.mn.us

651-296-6300

520 Lafayette Road North St. Paul, MN 55155-4194

UST Cathodic Protection System Evaluation Galvanic (Sacrificial Anode) Type

Underground Storage Tanks (UST) Program

Doc Type: Compliance Certification

Instructions: Within 30 days, send completed form to Joann Henry, Minnesota Pollution Control Agency (MCPA) at the address above, fax to 651-297-2343, or e-mail joann.henry@state.mn.us.

All reports must be submitted regardless of results (pass, fail, or inconclusive)

Inco	mplete, unsigned, or illegible forms will no	ot be accepted and	will be returned.		
1. UST facil	lity MPCA Site ID #:	2. UST owne	er/operator		
Name: MLB (Conveinence				
	955 Hwy.169				
City: Onamis,	Mn Zip code:	City:	etteksikkitti tilikkitti kiristikkitti olaisuurentaraasa asameru, z	State: 1	√ln.
County:	Phone:	Zip code:		Phone:	
Contact name (if different than above):	* vs. vi. b-999-9889-9989-999-999-999-999-999-999-	Contact phone:	· · · · · · · · · · · · · · · · · · ·	
3 Cathodic	Protection (CP) tester information and	d auglifications			
	rint): Brent Banasiuk		Pump and Meter Se	ervice Inc	
	303 Excelsior Blvd.		City: Hopkins	· · · · · · · · · · · · · · · · · · ·	
State: Mn	Zip code: 55343 Phone: 95.			uk@pump-meter.com	Alexandra (Service)
***************************************	ation of Corrosion				
	CE) international certification #.	Steel	Tank Institute (STI) ce	ertification #: CP31712	
A Passans	survey was conducted (check only one)				
	- 3 years Routine - within 6 months of install	afte valence as veh.05 I	ur fail Maecunyay wi	ithin 6 months of ransir/	modification
	P survey must be conducted by (mm/dd/yyyy): 10/3/:		-		
Date Heat O	- survey must be conducted by (miniousyyyy). 19797	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	med within thomas or an	stell Of repair, and every o	years mercaner.)
5. CP tester	r's evaluation (check only one)				
	All protected structures at this facility pass the CP significant for the light adequate CP has been provided to the light			protected structures a	re isolated. It is
☐ Fail	One or more protected structures at this facility fail t	*	•	e CP has not been pro	vided to the US
	system. (Complete sections 7 and 8).				S. F. 195 45
∐ Inconclu	usive The remote and the local do not both indicat continuity survey indicates continuous or inc				
	evaluated by a corrosion expert (Corrosion I	Expert to complete se	ection 6).		
CP Tester	Signature: But Kensi	Date CP	survey performed (mr	m/dd/yyyy): 10/3/2013	
6. Corrosio	n expert's evaluation (if applicable)				
	ed survey must be conducted and/or evaluated by a				
the local an	ted with dielectric material; b) adding supplemental id remote structure-to-soil potential did not result in	the same outcome (bi	oth pass or both fail); (d) the continuity survey	
	protected structures are not isolated; e) when requ				
☐ Pass ☐ Fall	All protected structures at this facility have been One or more protected structures at this facility for	,	•	•	rovided to the
Francis (2) 14	UST system.	en and Or Joredy and	it is landed that anede	iato or mas not boom p	, or nocu to nito
Corrosion e	expert's name (print):	d a — diagramatik wina, a quinto win 11 anyunnakennin katan da kanaaren	Phone:		
Company n	ame:		himinoliikaalaakiskoonaaniniininooniiiiiinnaasi ar var a mak rada	to updates	
NACE Int./F	PE certification:	NACE Int	./PE certification #:	* on water v t	
	Signature:			id/yyyy):	es seem S
7. Critena a ⊠ -850 On	applicable to evaluation (check all that ap Structure-to-soil potential more negative than -850	-	e nintective current an	olied	
□ -850 Off			•		Γ)
☐ 100 mV					
		•	-		

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800-657-3864

TTY 651-282-5332 or 800-657-3864 • Available in alternative formats

Facility name:	Date of test: 10/3/2013
(Note: The facility name and date of test will automatically po	pulate from page one upon printing, if filled out electronically)
8. Action required as a result of this evaluation (check only	v one)
	his lime. Test again by no later than (see Section 4).
☐ Retest CP may not be adequate. Retest within 30 days to	determine if passing results can be achieved. (Retests may occur only if
all protected structures are isolated from non-prote Repair & Retest CP is not adequate. Repair/modification is necessary	
C Napan a Napac Of 13 not adolptic. Napan Napan	
9. CP system repairs and/or modification information	
Date of "failing" test: Date of repair: (mm/dd/vyvy) (mm/dd/yyvy)	Repair company:
Name of lead repair	
technician: Certification of repair technician (check all that apply): Steel Tank I	Phone #
Note: submit failing test results with this report if not already submitted.	matide Livior Livior and Supervisor
Description of Repairs (check all that apply)	Repairs /modifications for 1 & 2 must be designed by a "corrosion
1. Supplemental anodes for a sti-P ₃ tank.	expert" or installed per industry standards. Attach corrosion experts
 2. Supplemental anodes for metallic pipe which is factory coated with dielectirc material (fusion bonded epoxy or equivilent). 	design, or documentation industry standard was followed. (Section 6 must be signed if designed by a corrosion expert.)
3. Supplemental anodes for a non-sti-P ₃ ® tank. (e.g., bare steel).	Repairs/modifications for 3 & 4 and must be designed and evaluated
Supplimental anodes for metalic pipe which is non-factory coated with dielectirc material (e.g., galvanized, copper, bare steel, etc.).	by a corrosion expert only. Attach a corrosion experts design.
5. Isolation of Galvanically protected tanks/piping. (explain in "reman	
6. Isolation of non-protected metal pipe segments (e.g., flex connect	
Management of the Committee of the Commi	
Remarks/Other:	
APPARAMENT OF THE STATE OF THE	
	W 100 100 10 100 100 100 100 100 100 100
10. Galvanic (sacrificial anode) structure to soil potential	
Half Cell Placement (testing) on frozen soil, concrete, aspha	alt, or other paving materials is not acceptable.
Structure to Soil Potentials:	
At least one of the reference cell locations must be least one must be placed in soil approximately 25 location is at the discretion of the tester (either loc	e locations per tank, and three locations per piping run. e in the soil directly over the tested structure (local); and at to100 feet away from the structure (remote). The third al or remote). hts are required for each flex connector, one local and one
remote. Roth the local and the remote voltage must meet to	one of the three criteria listed in section 7 in order for the when both the local and the remote structure-to-soil potentials
do not result in the same outcome (both pass or b If the "-850 mV Off" or the "100 mV Polarization" or	oth fail). criteria is used for galvanic systems, record structure-to-soil
potential readings on the MPCA Impressed Curre	nt data sheet or similar form.
Continuity Testing: (Point-to-Point and/or Fixed Cell-N	Moving Ground)
 Point-to-Point: When conducting this method, the being examined to demonstrate isolation or contir 	leads of the volt meter are required to contact the two structures
 Fixed Cell-Moving Ground: When conducting this location approximately 25 to 100 feet away and let 	method, the half cell must be placed in the soil at a remote ft undisturbed. The other lead of the meter is moved to
structures being evaluated. To interpret continuity data for either method com	pare the difference in voltage of the structures evaluated and
use the following guidelines: 1 mV or less = confir	nuous, 1-10 mV= inconclusive, greater than 10 mV = isolated. rotected must be isolated from all other non-protected metallic
structure in order to "nass" the continuity survey.	
 If other approved continuity testing methods are under the continuity testing methods. 	used, alter this form or submit the data on a separate sheet.
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Facil	ity name:				Date of t	est: 10/3/20)13	- 500eF
		(Note: The facility name and date of test	will automatically	populate from page	one upon p	rinting, if filled	out electronic	cally.)
Desc	ribe soil :	type and location(s) of remote refe	rence cell plac	:ement(s) (e.g., E	Black Dirt, 3	30 feet NW c	f Tank #1 s	pill bucket):
		n #1: 40' to the southeast Grass Are			Tillyweithein der eine erwessen eine	**	·	•
	ote locatio		be as respectively	arma que sigue 15 a.C. sprincia de productiva de la compansión de la compa	manufacture , , , ,	adds a s . s standards a		To .
Desc	ribe soil ty	rpe(s) of local reference cell placeme	nts: <u>Drilled h</u>	noles @ Tank		7000 at 1 Mar		· X ₁₀₀
		Structure to soil potentials (m	<u></u>		Contin	uity testin	g (mV) Fixed cell	Isolated/
	Half cell site map					point	remote	Continuous/
	code	Haif cell placement description	"ON" Voltage	Structure te	and the second second	voltage	voltage	Inconclusive
Tank 1	(Ex)1	Local, soil at ATG manway	-1011 mV	(Ex) ATG Conduit		475 mV		isolated
" made 1	(Ex)2	Local, Soil at STP manway	-995 mV	(Ex) STP conduit		<u> </u>	-528 mV	isolated
Structure (Example)	(Ex)R-1	Remote #1	-1042 mV	(Ex) Vent		421 mV	ı	isolated
Example (Example	Structure	contact point(s): (Ex)Tank Bottom		(Ex) Fill Riser	- W	375 mV	-522 mV	isolated
	Overall S	tructure Results (Structure to soil potentia	als and continuity)	: 🔯 Pass	☐ Fall	☐ Inconc	lusive	
70	001 C-1	@ Fill Area	-990	Fill Riser	Baydynaddardygogolosonae , h.s.e	A STATE OF THE STA	-473	solated
	001 C-2	@ Sub Area	-962	ATG Riser	- Managarah Malayara		-438	Isolated
됩	001 C-3	Remote	-939	ATG Conduit	- casts -exist iterator		-508	Isolated
			-					
Strctie	Structure	contact point(s): Tank Bottom						
200	Overall S	tructure Results (Structure to soil potentia	als and continuity)	: 🛛 Pass	☐ Fail	☐ Inconci	usive	
	002 C-1	@ Fill Riser	-1046	Fill Riser			-440	Isolated
	002 C-2	@ Sub Area	-1065	ATG Riser			-407	Isolated
8	002 C-3	Remote	-1021	ATG Conduit			-452	Isolated
		Nomina				in . The second	*	
Structure:	Ctrictura	contact point(s): Tank Bottom	Andreas Santalia and Antonia			emperary new 317 We decided to 11	e ?	
2 2		tructure Results (Structure to soil potent	isis and continuity): 🔯 Pass	☐ Fail	☐ Incond	lusive	,
BORDON POR PORTO	003 C-1	@ Fill Riser	-1049	Fill Riser			-4 19	Isolated
					***************************************		-441	Isolated
ଫା	003 C-2	@ Sub Area	-1068	ATG Riser]	 -	*	1
8	003 c-3	Remote	-997	ATG Conduit		9	-397	Isolated
Structure: Midgrade				One from Anticology ()—419000 College (Anticology ()) Belle and Anticology ()		- F 1/10 F		
da	Structure	contact point(s): Tank Bottom	Colonial Statement (School)	Although territor degignacionalismo del transferancio (1930).	,	and and		i
ű Zi	Overall S	tructure Results (Structure to soil potenti	els and continuity)	: 🛛 Pass	☐ Fail	☐ Incond	lusive	
	004 C-1	@ Fill Riser	-989	Fill Riser			422	Isolated
	004 C-2	@ Sub Area	-1077	ATG Riser			-418	solated
8	004 C-3	Remote	-1032	ATG Conduit		- Constitution of the Cons	-501	Isolated
	and the second second second second	The second secon	The second secon					F
Structure: Unlead	Ctructure	contact point(s): Tank Bottom	A Commission of the Commission				ì	
Structu		00000000000000000000000000000000000000	45 24	. 87 0	☐ Fail	Inconc	: Itanian	
exercises process	Overall S	tructure Results (Structure to soil potenti	als and continuity)	: 🛛 Pass	LICAN	LIMEONS	IGDIAG	
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Structure:		contact point(s):	anang manangangan (1996) - Africa - Afr	Market Market Carlot Ca		And the second of the second of		
ഗ	Overall S	tructure Results (Structure to soil potenti	als and continuity	: Pass	☐ Fall	☐ incond	lusive	
and advantable to a section	.pca.state.	mn.us • 651-296-6300 • 800-0	557-3864 •	TTY 651-282-5332	or 900.457.	Av	ailahla in alte	ernative format

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water:	La Participa de Santos de Composito de Compo	Structure to soil potentials	<u>(mV)</u>	occoopments	Contin	uity testing Point-to-	(mV) Fixed cell	Isolated/
S	aif cell te map ode	Half cell placement description	"ON" Voltage	Structure tes	ted	point voitage	remote voltage	Continuous
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-	A A0000000	contact point(s):		☐ Pass	☐ Fail	I Inconciu	ısive	
-)verall 5	structure Results (Structure to soli por	enusis and continuity).					pppyypezauszuszus cirkled (dzianie) www.commiss.
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	Overall	Structure Results (Structure to soli p	otentials and continuity):	☐ Pass	☐ Fail		lusive	
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1	NIII - A-WEIGHT - MANAGEMENT	e contact point(s): Structure Results (Structure to soil p	ntentials and continuity):	☐ Pass	☐ Fail	⊥	lusive	4
-	Overan	SBUCKITE RESULTS (STANKER TO SON P		energia de la companya de la company				
	wode		Annual Control of the	<u> 1988-1989-1984 - 1988-1984 - 1988-1988 - 1988-1988 - 1988-1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1</u>				
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1					energylacoptic of terminology in	to designation of		÷ ÷
	Structur	e contact point(e):			gramma a service on managements and common a	300 A CONTRACTOR 1		
	Overal	Structure Results (Structure to soil p	ootentials and continuity):	☐ Pass	☐ Fail	☐ Incon	clusive	
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	***************************************	re contact point(s):	notentials and continuity):	☐ Pass	☐ Fail	☐ Incon	clusive	'
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		If separate corrosion protection is I	required on flex connecto	rs, treat each fle	x as if it wer	e an individual	metal pipe	
			Attach additional sh	eets as need	led.			
		· ·	APPRINTS AND AND SECTION AND AND					

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Facility name:		Date of test:	10/3/2013
•	(Note: The facility name and date of test will automatically populate from page	one upon printing	a, if filled out electronically.)

11. Description of UST system

Tank/ Pipe #	Product	Capacity (Gallons)	Tank type¹	Piping type ²	Metal Segments at Tank sump ³	Metal Segments at Dispenser ²
1	001 Diesel	8000	Steel	Fiberglass	Flex	Flex
2	002 Premium	8000	Steel	Flberglass	Flex	Flex
3	003 Midgrade	10000	Steel	Fiberglass	Flex	Flex
4	004 Unlead	10000	Steel	Fiberglass	Flex	Flex
5						
6						
Ex.	Premium	10,000	SW sti-P ₃ ®.	DW Fiberglass	CP w/ anodes	In Containment

- Indicate if tank is Double Wall (DW) or Single Wall (SW). Also indicated type (e.g., steel, fiberglass, sti-P₃*, composite etc.). Also indicate if tank is compartmental if applicable
- 2. Indicate if piping is Double Wall (DW) or Single Wall (SW). Also indicate type (e.g., coated steel, fiberglass, galvanized, flex, etc.).
- Indicate how metal segments such as flex connectors or metal pipe segments are protected from corrosion (e.g., isolated, booted, bonded, CP w/anodes, in containment, etc.)

12. UST facility site drawing

Attach detailed drawing or use the space provided to draw a sketch of the UST and CP systems. At a minimum you should indicate the following: All tanks, piping and dispensers; Location of anodes if known; All buildings and streets; Location of CP test stations; Each reference cell placement (local and remote) must be indicated by a code (e.g., 1,2, T-1,) corresponding with the appropriate test in Section 10 of this form. If supplemental anodes are added to the tank system, indicate number, size, location and depth of the new anodes. An evaluation of the CP system is not complete without an acceptable site drawing.

[Indicate North Here]

Facility name:		Date of test:	10/3/2013
i admity manno.	9999999999999999999999999999999999999		

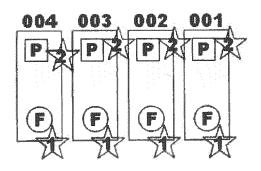
(Note: The facility name and date of test will automatically populate from page one upon printing, if filled out electronically.)







	LEGEND
Ø	PROBE
E	FILL
汝	% CELL
(6)	DISPENSER
(8)	RECTIFIER
I	JUNCTION BOX









Underground Storage Tanks

Cathodic Protection System Evaluation Sacrificial Anode Type

Submit this form to the MPCA within 30 days after conducting an evaluation of a regulated underground storage tank (UST) system with a sacrificial anode (galvanic) type cathodic protection system.

	MPCA	Use	Only		***************************************
Site #:		en ann ann ann ann ann ann ann ann ann a		***************************************	ricidaquagganoyari
County:				***************************************	***************************************
Date rec'd:					

Wavs	to	SUI	omit:

- Mail: Attn: Joann Henry at above address

Fax: 651-297-2343 or 651-297-8683, Attn: Joann Henry

Important:

- Form must be completed and signed by a qualified Cathodic Protection Tester.
- Evaluation must be in accordance with NACE RP0285, Corrosion Control of UST Systems by Cathodic Protection.
- At least two test points per tank and per piping run must be utilized.
- A site diagram showing tank and piping locations and reference cell placement must be provided.
- incomplete and unsigned forms will be returned.

Site Information	
Site name: m/l/c /	LAC'S CONVENIENCE (DEWEYANNIS)
Address: 40 955	Hwy 169
City: ONBMIA	State: MN Zip code:
Phone:	State: MN Zip code:
Owner Informati	,
ite name:	Phone:
Address:	· ·
	State: Zip code:
Cathodic Protect	tion Expert Information
Site name: O D A	21 Eller Brant 16
Address: 49 %/	LIGHTHING DRIVE State: MN Zip code: 558//
City: DulotH.	. State: Mw Zip code: 55 8//
Phone: <u> </u>	- 0フ 5フ STI certification #: ピア 名0 名 / ひ NACE certification #:
Reason for Evalu	uation
⊠ Routine annual	
demo	vithin six months of installation
Re-evaluation w	vith six months of a repair/modification
Result of Evalua	ation
⊠ Pass	All protected structures at this facility pass the cathodic protection evaluation. Cathodic protection is adequate
	(850 mv or greater) to protect the UST system.
□ Fail	One or more protected structures at this facility fail the cathodic protection evaluation. Cathodic protection is
formal 1 call	inadequate (850 mv or less) to protect the UST system. See results on back.
Action Required	i
☑ None	Cathodic protection is adequate. No further action is necessary at this time.
Repair & Retest	Cathodic protection is not adequate. Repair/modification is necessary as soon as possible, not to exceed 60 days. Re-evaluation required within 6 months of repair/modification.
	Test again no later than (mm/dd/yyyy):

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Test Results

t-u5-05 3/25/08

est Point	Structure Description	*Potential Volts (V)	Structure Status	Structure Isolation	Voltage	Isolated
(éxample)	Transpassurese	1989 1989	Risi	Tank to tank	<u> voitage</u>	13 VIALUA
Vexamine)	(tanaxanesiezei	1 3303	14453	NI-PREM	19.0 MU	, minocot succession
2				NC-MIC	28.4WV	
3			nonnecesses en en establishe de la marie d	PREM - mid	48.4 mu	
4		***************************************		Tank to conduit	J	
5			M. M. A. C.	P1856(512 mV	00-1003 prility-distriction (10-10-10-10-10-10-10-10-10-10-10-10-10-1
6				was a residence of the control of th		
7			- 131-321-321-321-321-321-321-321-321-321-			
8				Tank to pipe	30g a fine for a colocostico 2000000000000000000000000000000000000	
9				PIZSEC		
10			on the state of th		000	METAL
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- 18			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
.	acement (Describe				lumber each te	st point.
Half-cell Pl		all tanks, piping, a	nd dispensers. Sh	ow each half-cell placement. N	lumber each te	st point.
Half-cell Pl	m (Show location of a	all tanks, piping, a	nd dispensers. Sh		lumber each te	st point.
Half-cell Pl	m (Show location of a	all tanks, piping, a	nd dispensers. Sh		lumber each te	st point.
Half-cell Pl	m (Show location of a	all tanks, piping, a	nd dispensers. Sh		lumber each te	st point.
Half-cell Pl	m (Show location of a	all tanks, piping, a	nd dispensers. Sh		łumber each te	st point.

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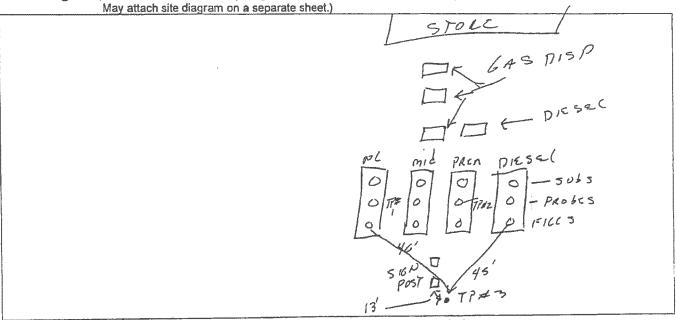
Test Results

Test Point	Structure Description	*Potential Volts (V)	Structure Status	
(example)	jajokeja Diesal	1989	Päss	
1	NL	-1115 m v		
2	NC	+1102 my		
3	NL	+967 MU		
4	mid -	1132 mu		
5	mil	1/31 mv		
6	mit.	+996 mv		
7	PREM	1130 mV		
8	PREM	+1121 mu		
9	2181	1987 mV		
10	DIESEC	+1066 mV		
11	DIESEC	+1057 mu		
12	DIESEC	1992 MU		
13		- Control of the Cont	:	
14	Lown	ETALIE		
15				
16	PIPIA			
17				
18				
19				

	Y	**************************************
Structure Isolation	Voltage	Isolated
Tank to tank		
D- P	640mV	
D-mil	73.5 MV	Additional constitution and additional and a constitution of the c
D-NL	45.1 mV	kantalan kalan
Tank to conduit	ngulakkan	
Dalt annument	490 mV	
mil	448mV	2003-200-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
PREM	429 mV	
Tank to pipe		galadasis sagang gapagang sagan
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MIL	NON	METALIC
P150		

falf-cell Placement (Describe soil type, e.g. clay, gravel, black dirt):

Site Diagram (Show location of all tanks, piping, and dispensers. Show each half-cell placement, Number each test point.



gnature of Cathodic Protection Tester:

t-u5-05 3/25/08 Date of evaluation: (mm/dd/yyyy)

Page 2 of 2



Minnesota Pollution Control Agency Galvanic (Sacrificial Anode) Cathodic Protection System Evaluation

36439

This form must be utilized to evaluate underground storage tank (UST) cathodic protection systems in the State of Minnesota.

At least two test points per tank and piping run must be utilized.

A sile-drawing showing reference cell placement and tank and piping locations must be provided.

	UST Owner				UST Facili		
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Tank Cathodic Protection Survey Information and Results

	Product	Structure Test Location #1	Voltage	(1410 CH 1	Fixed :: Remote	Isolated/ Continuous/ Inconclusive
41	1000 C	-1.148	WA	-1.150	NA	/50
<u> </u>	michable	-1,164	NA	-1,164	NA	750
<u> </u>	PASO	-1.165	NA	-1.169	NA	750
# 4	DIESE(-1, 155	wn	-1.158	NA.	150

Piping Cathodic Protection Survey Information and Results

Tarik Number	Product		Structure Test Location #1	Fixed Remote ! Voltage mV ! On 1/ Off	Structure Test Location #2	Fixed Remote Voltage mV On / Off	Isolated/ Continuous/ Inconclusive
41	ع م	STEEC	-1.107	NA	-1,110	WA	150
# 2	mid	/	-1.108	NA	-11110	NA	150
# 3	PREM	/ //	-1.124	NA	-1.120	NA	190
# 4	DIESEC	/ //	-1.055	NA	-1,060	NA	/50
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